,	Application No.	Applicant(s)
Notice of Allowability	09/764,476	ARMEZZANI ET AL.
	Examiner	Art Unit
	John B. Vigushin	2827
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	n will be mailed in due course. THIS
1. This communication is responsive to <u>Amendments filed 02</u>	2 December 2002 and 28 January 2	<u>003</u> .
2. The allowed claim(s) is/are <u>26-31,34-37 and 44</u> .		
3. The drawings filed on are accepted by the Examine		
4. ☐ Acknowledgment is made of a claim for foreign priority undappriority and a) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).	
1. ☐ Certified copies of the priority documents have	e been received.	
2. Certified copies of the priority documents have		•
3. Copies of the certified copies of the priority do		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority of		sional application).
(a) The translation of the foreign language provisional		
6. Acknowledgment is made of a claim for domestic priority to	ınder 35 U.S.C. §§ 120 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	of this communication to file a reply of f this application. THIS THREE-M C	complying with the requirements noted DNTH PERIOD IS NOT EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives rea	mitted. Note the attached EXAMINE son(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF s deficient.
8. X CORRECTED DRAWINGS must be submitted.		
(a) ☑ including changes required by the Notice of Draftspe	rson's Patent Drawing Review (PT0	O-948) attached
1) ☐ hereto or 2) ⊠ to Paper No. <u>4</u> .		
(b) ☐ including changes required by the proposed drawing	correction filed, which has	been approved by the Examiner.
(c) ☐ including changes required by the attached Examine	r's Amendment / Comment or in the	Office action of Paper No
ldentifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape	1.84(c)) should be written on the draw er with a transmittal letter addressed t	rings in the top margin (not the back) o the Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL MATERIAL THE DEPOSIT OF BIOLOGICAL M	must be submitted. Note the ATERIAL.
Attachment(s)		
1⊠ Notice of References Cited (PTO-892)	2 ☐ Notice of Inform	mal Patent Application (PTO-152)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)	4∐ Interview Sumi	mary (PTO-413), Paper No
5☐ Information Disclosure Statements (PTO-1449), Paper No.		nendment/Comment
7 Examiner's Comment Regarding Requirement for Deposit	8⊠ Examiner's Sta 9∏ Other .	atement of Reasons for Allowance
of Biological Material		

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DETAILED ACTION

1. The present Office Action is responsive to Applicant's amended responses filed December 02, 2002 and January 28, 2003. The Examiner acknowledges the amendments to the Specification and Claims 26, 34 and 44, and the cancellation of Claims 32, 33, 38-43 and 45. Claims 26-31, 34-37 and 44 remain pending in the instant amended Application.

Allowable Subject Matter

- Claims 26-31, 34-37 and 44 have been allowed.
- 3. The following is an examiner's statement of reasons for allowance:

As to Claims 26-31 and 34-37, patentability resides in the combination wherein the first and second flexible circuitized substrates are comprised of a material selected from the group consisting of polyimide, polytetrafluoroethylene and epoxy glass cloth, and a second contact portion (of the at least one solder member) extending substantially within both of the aligned conductive apertures of the first and second flexible circuitized substrates to the external surface of the conductive aperture of the second flexible circuitized substrate so as to substantially form a solder dome thereon, in further combination with the other limitations of base Claim 26.

As to Claim **44**, patentability resides in <u>the combination</u> of at least one solder member including a first contact portion for connection to a printed circuit board extending from the external surface of the conductive aperture of the first circuitized substrate <u>and</u> a second contact portion extending substantially within both of the

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aligned conductive apertures of the first and second circuitized substrates to the external surface of the conductive aperture of the second circuitized substrate so as to substantially form a solder dome thereon, in further combination with the other limitations of the claim.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Claims 26-31, 34-47 and 44 of the instant allowed Application will be renumbered as Claims 1-11, respectively, for publication in the issued patent.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a) Anthony (US 4,394,712; already of record in the instant Application) discloses all the limitations of Applicant's independent Claims **26** and **44**, including *at least one solder member including a first contact portion extending from the external surface of the conductive aperture of the first circuitized substrate <u>and</u> a second contact portion extending substantially within both of the aligned conductive apertures of the first and second circuitized substrates to the external surface of the conductive aperture of the second circuitized substrate so as to substantially form a solder dome thereon, but does <u>not teach</u>: 1) first and second <u>flexible</u> circuitized substrates <u>comprised of a</u>*

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material selected from the group consisting of polyimide, polytetrafluoroethylene and epoxy glass cloth (from Applicant's Claim 26); and 2) a first contact portion for connection to a printed circuit board extending from the external surface of the conductive aperture of the first circuitized substrate (from Applicant's Claim 44).

- b) Caporizzo (US 6,013,876) discloses a circuitized substrate 101 having a solder member 105 with contact portions extending to both surfaces 106 and 107 of circuitized substrate 101 for establishing connection between circuitry 102 on the surfaces 106 and 107 of circuitized substrate 101 (Figs. 2 and 3; col.3: 15-22 and 32-40).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Vigushin whose telephone number is 703-308-1205. The examiner can normally be reached on 8:30AM-5:00PM Mo-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7382 for regular communications and 703-308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

John B. Vigushin

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jbv March 19, 2003